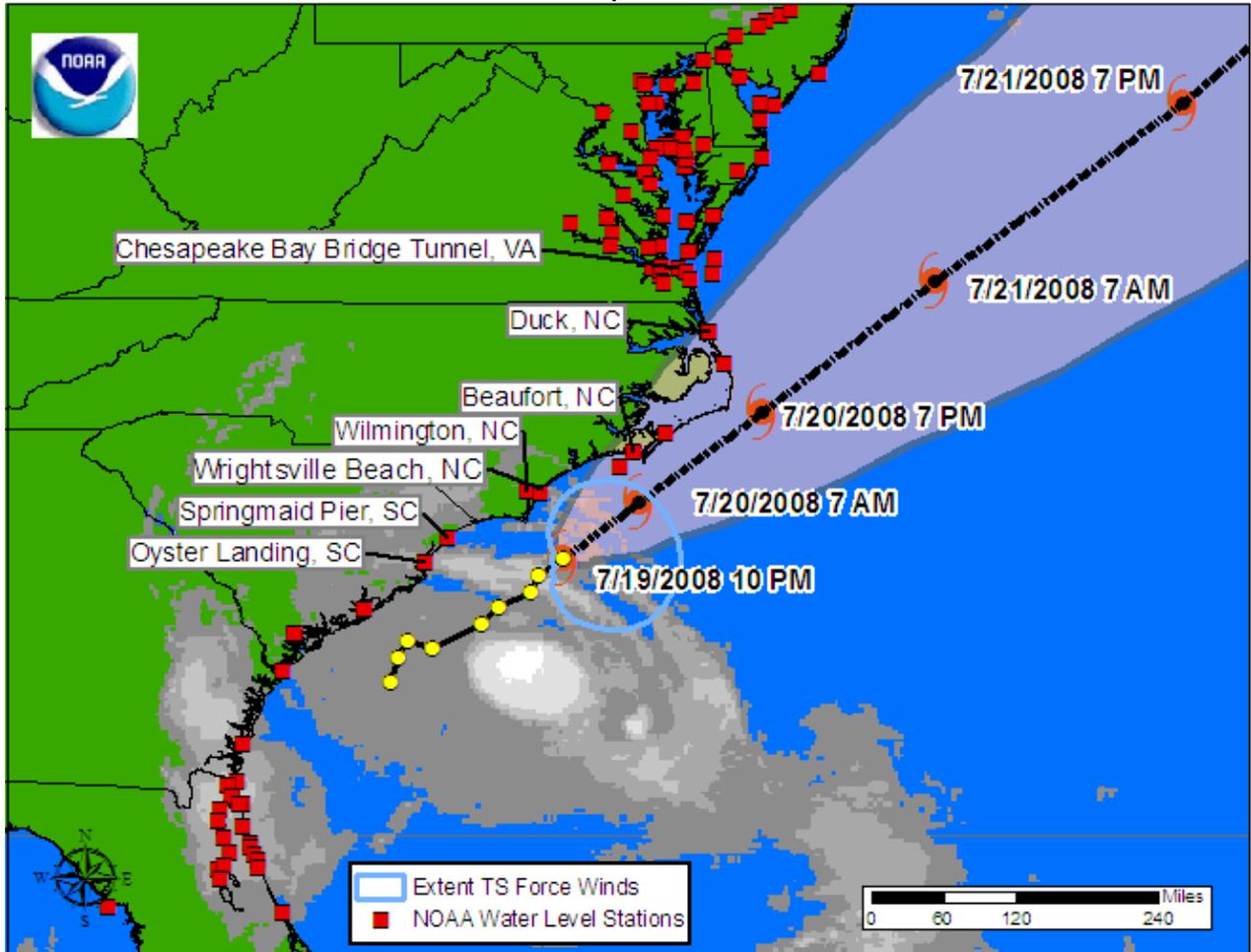




Tropical Storm CRISTOBAL QuickLook
Posted: 00:00 EDT 07/20/2008

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 07/20/2008 00:00 EDT, water levels from South Carolina to North Carolina remain slightly above or at predicted levels. Barometric pressure is falling at Springmaid Pier, SC and slightly falling at Duck, NC and Chesapeake Bay Bridge Tunnel, VA.

The next QuickLook will be issued at 12:00 EDT on July 20, 2008 unless there is a significant change in storm conditions.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Oyster Landing, SC: Next predicted high tide is 4.3 ft (1.3 m) on 07/20/2008 at 10:30 EDT.

Springmaid Pier, SC: Next predicted high tide is 4.6 ft (1.4 m) on 07/20/2008 at 09:24:09 EDT.

Wrightsville Beach, NC: Next predicted high tide is 3.5 ft (1.1 m) on 07/20/2008 at 09:30 EDT.

Wilmington, NC: Next predicted high tide is 3.9 ft (1.2 m) on 07/20/2008 at 11:30 EDT.

Beaufort, NC: Next predicted high tide is 2.8 ft (0.9 m) on 07/20/2008 at 10:00 EDT.

Duck, NC: Next predicted high tide is 3.0 ft (0.9 m) on 07/20/2008 at 09:36 EDT.

CBBT, VA: Next predicted high tide is 2.5 ft (0.8 m) on 07/20/2008 at 09:24 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services website](#). For more information or archived products and reports, please see the [Storm QuickLook Homepage](#).

Analyst: LF

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

BULLETIN

**TROPICAL STORM CRISTOBAL ADVISORY NUMBER 5
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL032008
1100 PM EDT SAT JUL 19 2008**

CRISTOBAL PARALLELING THE COAST

AT 11 PM EDT THE TROPICAL STORM WARNING IS DISCONTINUED FROM LITTLE RIVER INLET SOUTHWARD. A TROPICAL STORM WARNING REMAINS IN EFFECT FROM NORTH OF LITTLE RIVER INLET TO THE NORTH CAROLINA/VIRGINIA BORDER INCLUDING PAMLICO SOUND.

AT 1100 PM EDT THE CENTER OF TROPICAL STORM CRISTOBAL WAS LOCATED ABOUT 45 MILES SOUTHEAST OF CAPE FEAR NORTH CAROLINA AND ABOUT 170 MILES SOUTHWEST OF CAPE HATTERAS NORTH CAROLINA.

CRISTOBAL IS MOVING TOWARD THE NORTHEAST NEAR 6 MPH. A CONTINUED NORTHEASTWARD MOTION WITH SOME INCREASE IN FORWARD SPEED IS EXPECTED OVER THE NEXT COUPLE OF DAYS. ON THIS TRACK THE CENTER OF THE TROPICAL STORM IS EXPECTED TO MOVE PARALLEL AND VERY CLOSE TO THE COAST OF NORTH CAROLINA FOR THE NEXT DAY OR SO.

MAXIMUM SUSTAINED WINDS ARE NEAR 45 MPH WITH HIGHER GUSTS. SOME STRENGTHENING IS FORECAST DURING THE NEXT 24 HOURS.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 85 MILES TO THE EAST OF THE CENTER.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 1006 MB

RAINFALL AMOUNTS OF 3 TO 5 INCHES ARE EXPECTED ALONG THE NORTH CAROLINA COAST...WITH ISOLATED HEAVIER AMOUNTS.

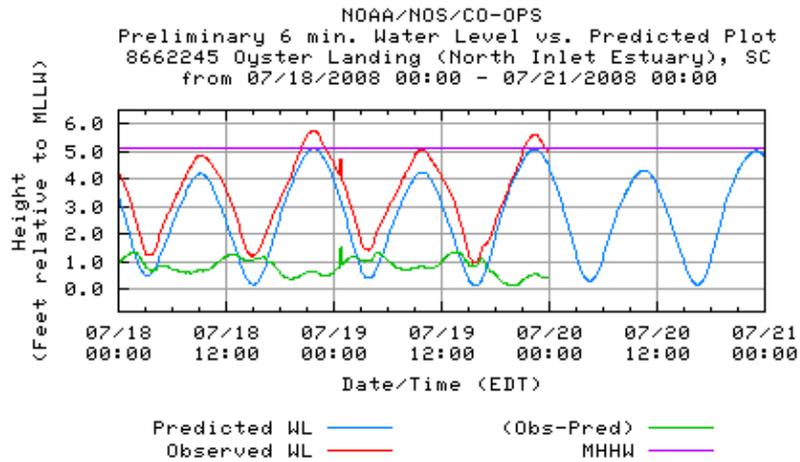
COASTAL STORM SURGE FLOODING OF 2-3 FEET ABOVE NORMAL TIDE LEVELS CAN BE EXPECTED IN AREAS OF ONSHORE FLOW.

FORECASTER FRANKLIN

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

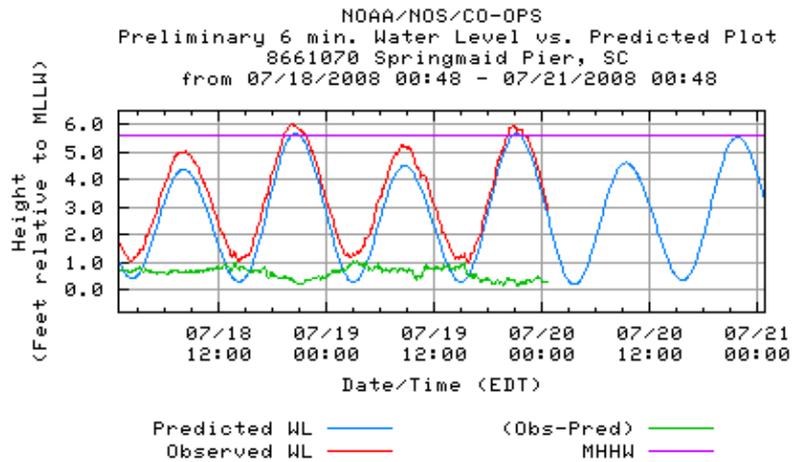
Jump to: [Oyster Landing \(North Inlet Estuary\) - Water Level](#), [Springmaid Pier - Water Level](#), [Springmaid Pier - Winds](#), [Springmaid Pier - Barometric](#), [Wrightsville Beach - Water Level](#), [Wrightsville Beach - Winds](#), [Wrightsville Beach - Barometric](#), [Wilmington - Water Level](#), [Beaufort - Water Level](#), [Duck - Water Level](#), [Duck - Winds](#), [Duck - Barometric](#), [Chesapeake Bay Bridge Tunnel - Water Level](#), [Chesapeake Bay Bridge Tunnel - Winds](#), [Chesapeake Bay Bridge Tunnel - Barometric](#), [Chesapeake Bay Bridge Tunnel - Air/Water Temp](#),

Oyster Landing (North Inlet Estuary), SC - Station Map [Return to List](#)



Last Observed Sample: 07/19/2008 23:48 (EDT)
 Relative to **MLLW**: **Observed: 4.97 ft. Predicted: 4.53 ft. Residual: 0.44 ft.**
 Historical Maximum Water Level: 07/22/2001, 2.21 ft. above **MHHW**

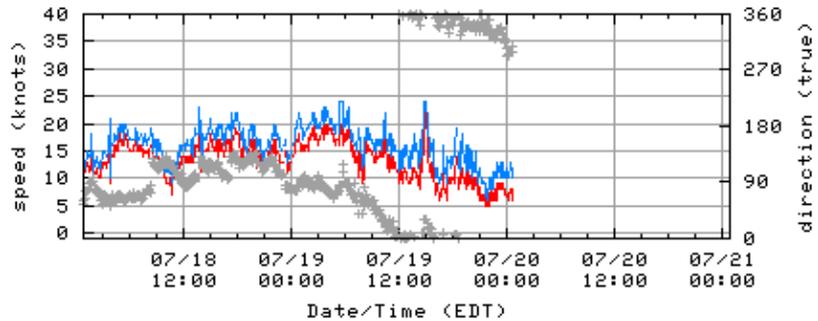
Springmaid Pier, SC - Station Map [Return to List](#)



Last Observed Sample: 07/20/2008 00:36 (EDT)
 Relative to **MLLW**: **Observed: 2.92 ft. Predicted: 2.67 ft. Residual: 0.25 ft.**
 Historical Maximum Water Level: 01/01/1987, 3.65 ft. above **MHHW**

Springmaid Pier, SC - Station Map [Return to List](#)

NOAA/NOS/CO-OPS
Wind Speed/Gusts/Dir
8661070 Springmaid Pier, SC
from 07/18/2008 00:48 - 07/21/2008 00:48



speed — gusts — direction +

Last Observed Sample: 07/20/2008 00:36 (EDT)

Wind Speed: 8 knots Gusts: 12 knots Direction: 307° T

Springmaid Pier, SC - Station Map [Return to List](#)

NOAA/NOS/CO-OPS
Barometric Pressure Plot
8661070 Springmaid Pier, SC
from 07/18/2008 00:48 - 07/21/2008 00:48

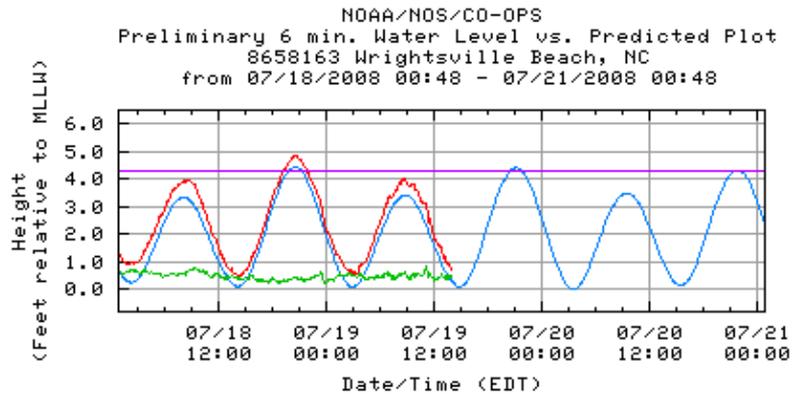


barometric pressure —

Last Observed Sample: 07/20/2008 00:36 (EDT)

Barometric Pressure: 1013.5 mb

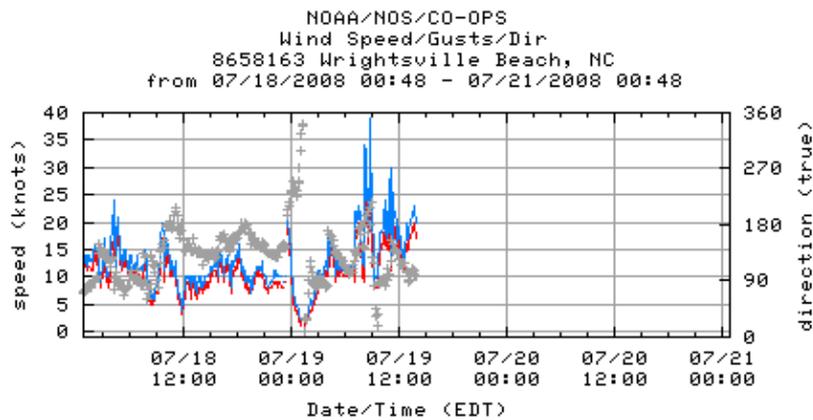
Wrightsville Beach, NC - Station Map [Return to List](#)



Predicted WL — (Obs-Pred) —
 Observed WL — MHHW —

Last Observed Sample: 07/19/2008 13:54 (EDT)
 Relative to **MLLW**: **Observed: 0.72 ft. Predicted: 0.29 ft. Residual: 0.43 ft.**
 Historical Maximum Water Level: n/a

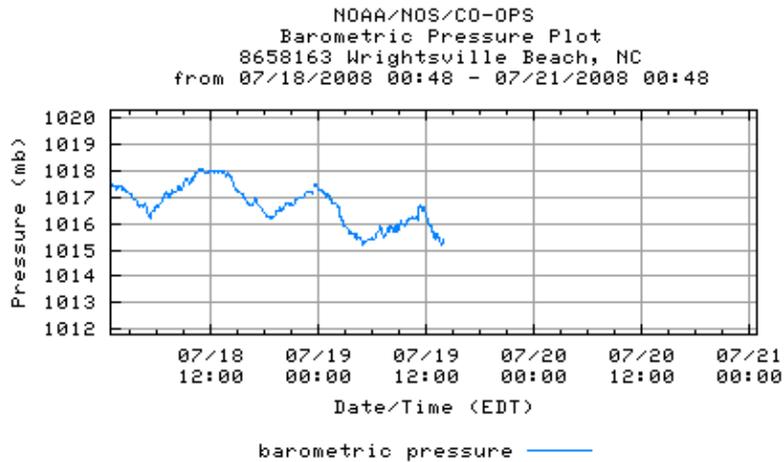
Wrightsville Beach, NC - Station Map [Return to List](#)



speed — gusts — direction +

Last Observed Sample: 07/19/2008 13:54 (EDT)
Wind Speed: 18 knots Gusts: 21 knots Direction: 097° T

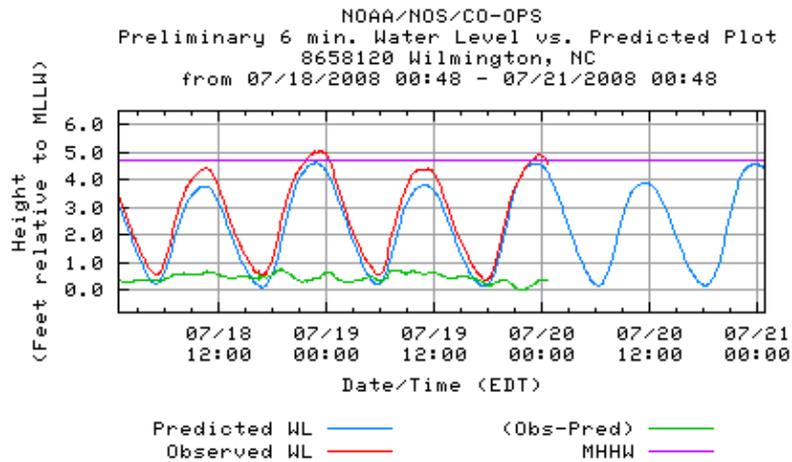
Wrightsville Beach, NC - Station Map [Return to List](#)



Last Observed Sample: 07/19/2008 13:54 (EDT)

Barometric Pressure: 1015.4 mb

Wilmington, NC - Station Map [Return to List](#)

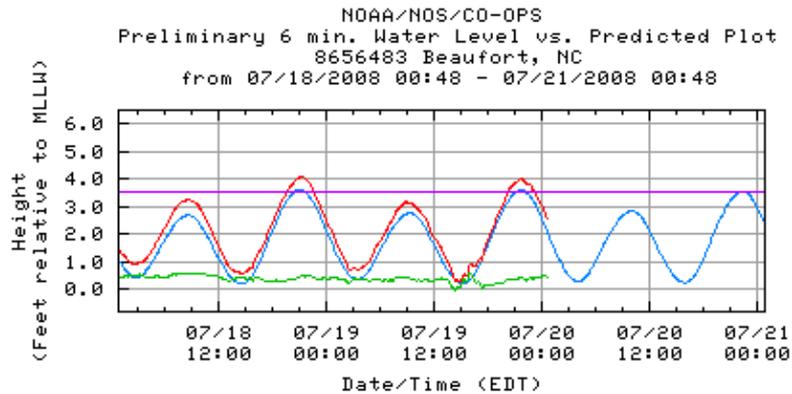


Last Observed Sample: 07/20/2008 00:36 (EDT)

Relative to **MLLW**: Observed: 4.57 ft. Predicted: 4.25 ft. Residual: 0.32 ft.

Historical Maximum Water Level: 10/15/1954, 3.47 ft. above **MHHW**

Beaufort, NC - Station Map [Return to List](#)



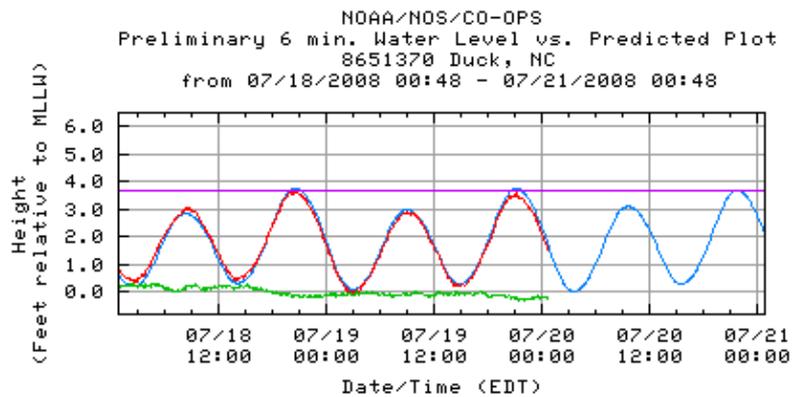
Predicted WL ——— (Obs-Pred) ———
 Observed WL ——— MHHW ———

Last Observed Sample: 07/20/2008 00:30 (EDT)

Relative to **MLLW**: **Observed: 2.55 ft. Predicted: 2.13 ft. Residual: 0.42 ft.**

Historical Maximum Water Level: 09/16/1999, 2.74 ft. above **MHHW**

Duck, NC - Station Map [Return to List](#)



Predicted WL ——— (Obs-Pred) ———
 Observed WL ——— MHHW ———

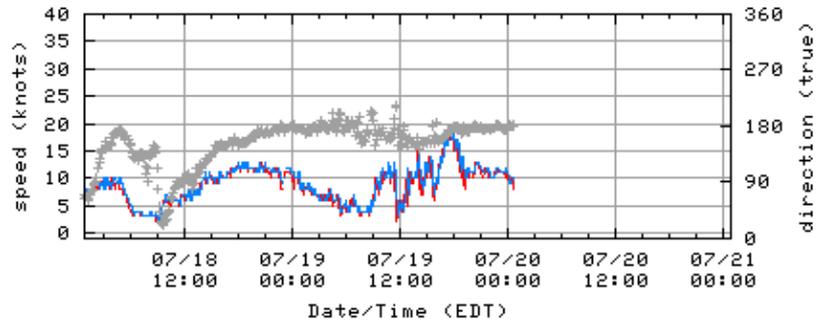
Last Observed Sample: 07/20/2008 00:36 (EDT)

Relative to **MLLW**: **Observed: 1.52 ft. Predicted: 1.74 ft. Residual: -0.22 ft.**

Historical Maximum Water Level: 08/30/1999, 3.23 ft. above **MHHW**

Duck, NC - Station Map [Return to List](#)

NOAA/NOS/CO-OPS
Wind Speed/Gusts/Dir
8651370 Duck, NC
from 07/18/2008 00:48 - 07/21/2008 00:48



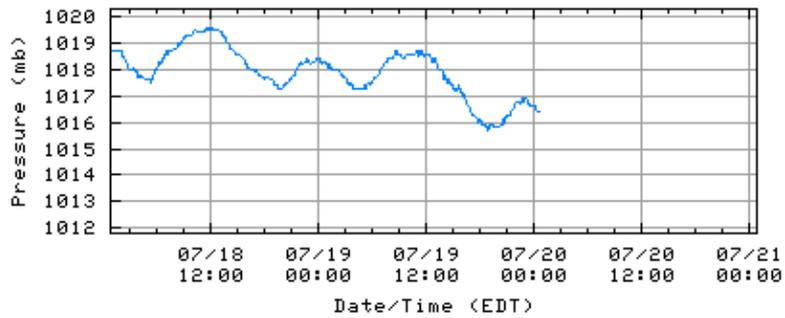
speed — gusts — direction +

Last Observed Sample: 07/20/2008 00:36 (EDT)

Wind Speed: 8 knots Gusts: 10 knots Direction: 180° T

Duck, NC - Station Map [Return to List](#)

NOAA/NOS/CO-OPS
Barometric Pressure Plot
8651370 Duck, NC
from 07/18/2008 00:48 - 07/21/2008 00:48

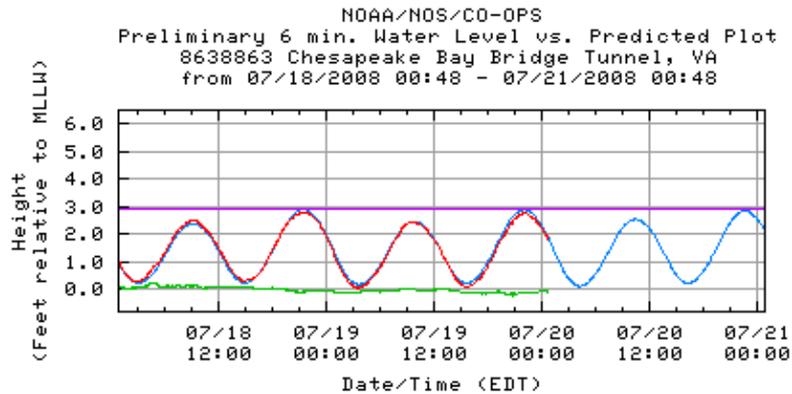


barometric pressure —

Last Observed Sample: 07/20/2008 00:36 (EDT)

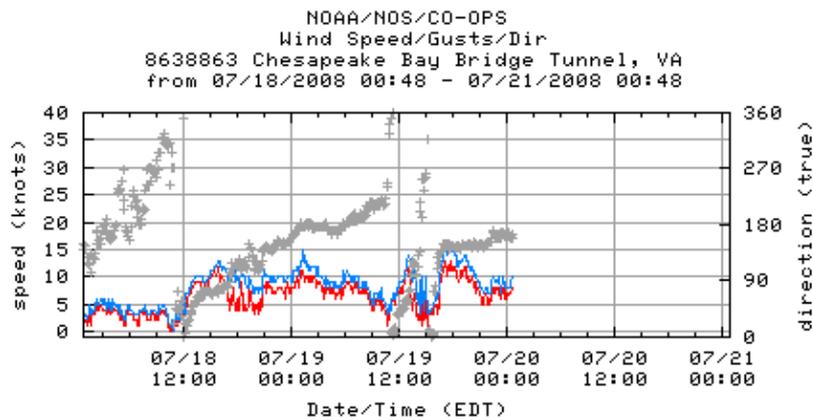
Barometric Pressure: 1016.4 mb

Chesapeake Bay Bridge Tunnel, VA - Station Map [Return to List](#)



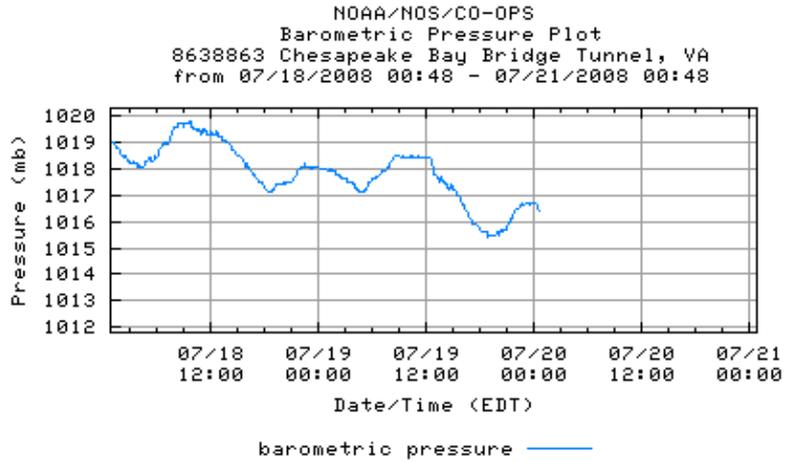
Last Observed Sample: 07/20/2008 00:36 (EDT)
 Relative to **MLLW**: **Observed: 1.78 ft. Predicted: 1.90 ft. Residual: -0.12 ft.**
 Historical Maximum Water Level: 02/05/1998, 3.68 ft. above **MHHW**

Chesapeake Bay Bridge Tunnel, VA - Station Map [Return to List](#)



Last Observed Sample: 07/20/2008 00:36 (EDT)
Wind Speed: 8 knots Gusts: 10 knots Direction: 166° T

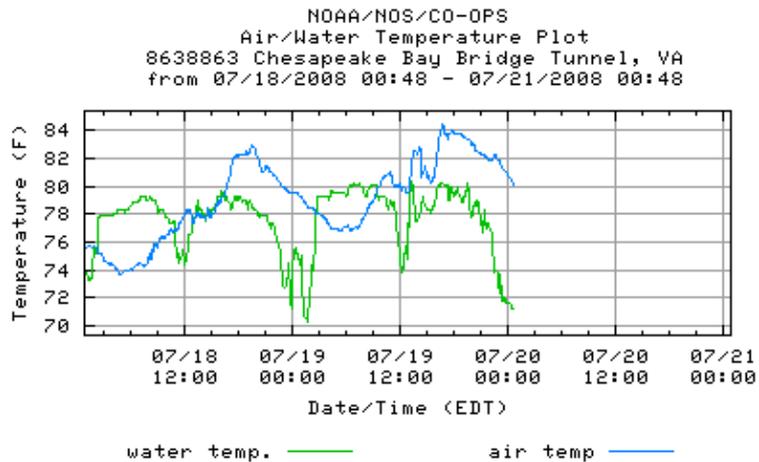
Chesapeake Bay Bridge Tunnel, VA - Station Map [Return to List](#)



Last Observed Sample: 07/20/2008 00:36 (EDT)

Barometric Pressure: 1016.4 mb

Chesapeake Bay Bridge Tunnel, VA - Station Map [Return to List](#)



Last Observed Sample: 07/20/2008 00:36 (EDT)

Water Temperature: n/a Air Temperature: 80.1 ° F

Tropical Storm CRISTOBAL QuickLook, POSTED 00:00 EDT 07/20/2008

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce